

Amendments to the Claims

This listing of claims replaces prior versions:

Claim 1 (Currently Amended): A machine remote monitoring system comprising:

means for determining identification information of a mobile call station in response to an incoming call from a mobile communication apparatus;

communication means which starts communication with the mobile call station via the mobile communication apparatus when the determining means makes a decision that the incoming call comes from a previously registered station;

means for confirming an operating condition of a machine on the mobile call station based on the condition data transmitted from the mobile call station in the communication;
[[and]]

information providing means for giving an information to a predetermined destination that a failure occurs when a condition data is not of a predetermined normal value or predetermined data showing an occurrence of failure; and

troubleshooting means, which starts up a predetermined program when it is confirmed that the failure occurs based on the condition data, and detects the cause of failure, and contents given by the information providing means includes the cause of failure decided by the troubleshooting means.

Claim 2 (Canceled)

Claim 3 (Currently Amended): The machine remote monitoring system according to claim [[2]] 1, wherein the system is connected to a network including a server serving as database, and the predetermined program is downloaded from the server via the network.

Claim 4 (Previously Presented): The machine remote monitoring system according to claim 3, wherein a detection result of the cause of failure determined by the troubleshooting means is transmitted to the server as history data together with the condition data.

Claim 5 (Currently Amended): A machine management method comprising the steps of:
making an access to a remote monitoring apparatus from a communication device with a mobile communication apparatus connected to a mobile managed machine so as to transmit a condition data of the mobile managed machine at every predetermined time and whenever a failure is detected or at one of these occasions;

carrying out troubleshooting so as to determine a cause of failure when the remote monitoring apparatus confirms an occurrence of failure based on the condition data which includes a failure data that is detected in the machine; and

giving a message of the occurrence of failure and a cause of failure determined by the troubleshooting step to a predetermined destination;

wherein an access to the remote monitoring apparatus from the communication device with the mobile communication apparatus is made with identification information previously allocated to the mobile managed machine, and the remote monitoring apparatus is started up in response to the access.

Claim 6 (Previously Presented): The machine management method according to claim 5, wherein troubleshooting is carried out using a program downloaded from a server via a network including the server serving as a database.

Claim 7 (Previously Presented): The machine management method according to claim 6, wherein the detection result of the cause of failure by the troubleshooting step is transmitted to the server as history data together with the condition data.

Claim 8 (Canceled)

Claim 9 (Currently Amended): The machine management method according to claim [[8]] 5, wherein the condition data is transmitted whenever the mobile managed machine starts to operate.

Claim 10 (Previously Presented): The machine management method according to claim 5, wherein the destination is at least one of a maintenance staff of the mobile managed machine and a user of the mobile managed machine.

Claim 11 (Original): The machine management method according to claim 10, wherein history data transmitted to the server is stored in the server, and an access is possible from any one of the maintenance staff and the user with previously allocated identification information.

Claim 12 (Previously Presented): The machine management method according to claim 6, wherein the remote monitoring apparatus displays the detection result of the cause of failure

determined by the troubleshooting step, maintenance parts required for taking suitable measures to the cause of failure, and an order screen for ordering the maintenance parts, and the order screen is operated so as to order the maintenance parts to a provider or maker included in the network.

Claim 13 (Previously Presented): The machine management method according to claim 6, wherein the remote monitoring apparatus displays the detection result of the cause of failure determined by the troubleshooting step, maintenance parts required for taking suitable measures to the cause of failure, and an instruction screen for providing information about cost required for maintenance to the user, and the instruction screen is operated so as to make an inquiry for taking desired measures to the user.

Claim 14 (Canceled)

Claim 15 (Previously Presented): The machine management method according to claim 5, wherein the detection results of the cause of failure by the troubleshooting step is transmitted to a server as history data together with the condition data.

Claim 16 (Currently Amended): The machine management method ~~accordingly~~ according to claim 5, wherein the remote monitoring apparatus display the detection result of the cause of failure determined by the troubleshooting step, maintenance parts required for taking suitable measures to the cause of failure, and an order ~~screen~~ screen for ordering the maintenance parts, and the order screen is operated so as to order the maintenance parts to a provider or maker included in the network.

Claim 17 (Previously Presented): The machine management method according to claim 5, wherein the remote monitoring apparatus displays the detection result of the cause of failure determined by the troubleshooting step, maintenance parts required for taking suitable measures to the cause of failure, and an instruction screen for providing information about cost required for maintenance to the user, and the instruction screen is operated so as to make an inquiry for taking desired measures to the user.